

- cond B3
91. The method for generating at least one spread-spectrum signal claimed in Claim 90 wherein the steps of phase offsetting (16n), providing (18n) the gain profile, and combining (20) the carrier signals generates a direct-sequence code division multiple access signal.
92. The method for generating at least one spread-spectrum signal claimed in Claim 90 wherein the step of providing (18n) the gain profile to the carrier signals includes modulating an information signal onto the carrier signals.
93. A spread-spectrum signal generator comprising a multicarrier generator (14n) capable of generating a plurality of electromagnetic carrier signals having a plurality of frequencies, the improvement comprising:
- a delay controller (16n) capable of applying a plurality of incremental phase offsets to the carrier signals for providing the carrier signals with a predetermined phase space at a predetermined time interval,
 - a gain controller (18n) capable of providing a predetermined gain profile to the carrier signals, and
 - a combiner (20) capable of combining the modulated, phased carriers to produce a spread spectrum signal from at least one superposition of the carrier signals.
94. The spread-spectrum signal generator claimed in Claim 93 wherein the delay controller (16n) and the gain controller (18n) provide phase offsets and a gain profile, respectively, that provides the superposition of the carrier signals with a direct-sequence spread-spectrum signal.

REMARKS

The requested amendments are not matters of substance and they will require very little consideration by the examiner.

On page 1, references to related applications are stated.

On page 2, four paragraphs were added to acknowledge prior-art documents D1, D2, and D3, as requested by the International Preliminary Examining Authority.

Because of the amount of material added to the specification, a retyped specification incorporating the above changes has been included herein.

The claims were rewritten to more precisely identify the inventive step of the invention as requested by the International Preliminary Examining Authority. In particular, the independent claims were written in two-part form recommended by Rule 6.3 (a) (b) PCT and reference signs in parentheses were added as required by Rule 6.2 (b).

Independent Claim 44 is a new claim that claims the transmission method described in Claim 1 in the original specification.

Dependent Claim 45 was rewritten from Dependent Claim 3 in the original specification.

Dependent Claim 46 was rewritten from Dependent Claim 4 in the original specification.

Dependent Claim 47 was rewritten from Dependent Claim 5 in the original specification.

Dependent Claim 48 was rewritten from Dependent Claim 6 in the original specification.

Dependent Claim 49 was rewritten from Dependent Claim 7 in the original specification.

Dependent Claim 50 was rewritten from Dependent Claim 10 in the original specification.

Dependent Claim 51 was rewritten from Dependent Claim 8 in the original specification.

Dependent Claim 52 was rewritten from Dependent Claim 15 in the original specification.

Dependent Claim 53 was rewritten from Dependent Claim 17 in the original specification.

Dependent Claim 54 is a new claim that claims a combining step involving an antenna array described in Dependent Claim 18 in the original specification.

Dependent Claim 55 was rewritten from Dependent Claim 18 in the original specification.

Dependent Claim 56 was rewritten from Dependent Claim 19 in the original specification.

Dependent Claim 57 was rewritten from Dependent Claim 20 in the original specification.

Dependent Claim 58 was rewritten from Dependent Claim 21 in the original specification.

Dependent Claim 59 was rewritten from Dependent Claim 23 in the original specification.

Dependent Claim 60 was rewritten from Dependent Claim 24 in the original specification.

Dependent Claim 61 was rewritten from Dependent Claim 25 in the original specification.

Independent Claim 62 is a new claim that claims the reception method described in Claim 1 in the original specification.

Dependent Claim 63 was rewritten from Dependent Claim 9 in the original specification.

Dependent Claim 64 was rewritten from Dependent Claim 11 in the original specification.

Dependent Claim 65 was rewritten from Dependent Claim 14 in the original specification.

Dependent Claim 66 was rewritten from Dependent Claim 12 in the original specification.

Independent Claim 67 was rewritten from Independent Claim 1 in the original specification.

Independent Claim 68 is a new claim that claims the transmitter described in Claim 27 in the original specification.

Dependent Claim 69 was rewritten from Dependent Claim 33 in the original specification.

Dependent Claim 70 is a new claim that claims an array of transmitter elements described in Dependent Claim 34 in the original specification.

Dependent Claim 71 is a new claim that claims an array of transmitter elements described in Dependent Claim 34 in the original specification.

Dependent Claim 72 was rewritten from Dependent Claim 34 in the original specification.

Dependent Claim 73 was rewritten from Dependent Claim 32 in the original specification.

Dependent Claim 74 is a new claim that claims a delay controller (16n) that provides a plurality of incremental phase offsets to carrier signals that are uniformly spaced, as described in Dependent Claim 2 in the original specification.

Dependent Claim 75 was rewritten from Dependent Claim 35 in the original specification.

Dependent Claim 76 was rewritten from Dependent Claim 38 in the original specification.

Dependent Claim 77 was rewritten from Dependent Claim 39 in the original specification.

Dependent Claim 78 is a new claim that claims an output coupler (24) designed to combine signals into a communication channel to produce CIMA signals that occupy non-zero phase spaces, as described in Dependent Claim 9 in the original specification.

Dependent Claim 79 was rewritten from Dependent Claim 40 in the original specification.

Dependent Claim 80 was rewritten from Dependent Claim 41 in the original specification.

Dependent Claim 81 is a new claim that claims an amplitude control system (18n) described on Page 5, line 4 to line 8 having a function described in Page 11, lines 12 to 18, and shown in FIG. 12A and FIG. 12B in the original specification.

Dependent Claim 82 was rewritten from Dependent Claim 27 in the original specification.

Dependent Claim 83 is a new claim that claims a phase-space delay compensator (60mn) described on Page 7, line 8 to line 9 in the original specification.

Dependent Claim 84 was rewritten from Dependent Claim 31 in the original specification.

Dependent Claim 85 was rewritten from Dependent Claim 28 in the original specification.

Dependent Claim 86 was rewritten from Dependent Claim 29 in the original specification.

Dependent Claim 87 was rewritten from Dependent Claim 30 in the original specification.

Dependent Claim 88 was rewritten from Dependent Claim 37 in the original specification.

Independent Claim 89 was rewritten from Independent Claim 27 in the original specification.

Independent Claim 90 is a new claim that claims a method of generating a spread-spectrum signal, which is described on Page 4, line 25 to Page 5, line 23 and on Page 11, line 12 to line 18 in the original specification and shown in FIG. 1, FIG. 12A, and FIG. 12B.

Dependent Claim 91 is a new claim that claims a method of generating a spread-spectrum signal, which is described on Page 4, line 25 to Page 5, line 23 and on Page 11, line 12 to line 18 in the original specification and shown in FIG. 1, FIG. 12A, and FIG. 12B.

Dependent Claim 92 is a new claim that claims a method of generating a spread-spectrum signal, which is described on Page 4, line 25 to Page 5, line 23 and on Page 11, line 12 to line 18 in the original specification and shown in FIG. 1, FIG. 12A, and FIG. 12B.

Independent Claim 93 is a new claim that claims a spread-spectrum signal generator described on Page 4, line 25 to Page 5, line 23 and on Page 11, line 12 to line 18 in the original specification and shown in FIG. 1.

Dependent Claim 94 is a new claim that claims a spread-spectrum signal generator described on Page 4, line 25 to Page 5, line 23 and on Page 11, line 12 to line 18 in the original specification and shown in FIG. 1, FIG. 12A, and FIG. 12B.

Very Respectfully,

Steve J. Shattil
4980 Meredith Way #201
Boulder, CO 80303

(303) 546-9244